

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

A system and a process for detecting a load of clothes in an automatic laundry machine, comprising a voltage sensor, a rotation sensor, and a control unit associated with a timer, with the voltage sensor, and with the rotation sensor and which is supplied with data representative of the medium torque M_{mot} of the electric motor in different voltage ranges and with data representative of the acceleration and deceleration reference times (T_{a1} and T_{d1}) of the electric motor with the basket in the unloaded condition and containing a load of clothes, between two distinct and predetermined rotation values of the electric motor, so as to calculate the moments of inertia (J_v , J_c) of the basket in the unloaded and in the loaded conditions, said control unit calculating the difference between said moments of inertia (J_c e J_v) of the basket and producing a signal representative of the mass of the load of clothes.